Star Line Mode Printer Driver

Windows 95 / 98 / Me

Version: 3.11.0.0 Date: 2002/07/24

Specification and User Manual

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Software Description

This driver set includes Windows 95/98/Me compatible printer drivers for the following models:

Thermal Printers				
TUP992	TUP942	TSP847	TSP743	
TSP643	TSP613			

All of these printer drivers are based on Star's Line Mode command set. Through the use of Star Line Mode, these drivers achieve the following major functional points:

Graphics Printing

Text Printing via Device Fonts (with CP1252 support)

2 Color printing

Barcode printing via Device Fonts

Page Length Control (including Black Mark sensing)

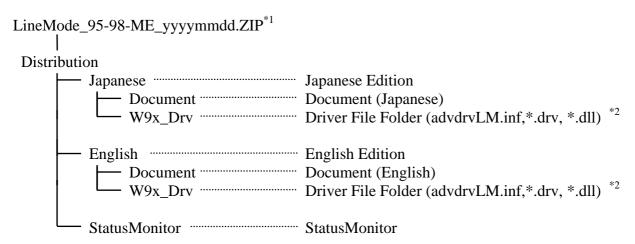
Cutter Control

Cash Drawer Control

Presenter Control

For all models, the factory default printer configuration need not be changed in order to begin using the drivers. When usage of a driver feature requires changes to a printer's configuration, that change will be fully described. An example of a feature that may require a printer's configuration to be changed is usage of Black Mark paper, which is a selectable feature within the driver.

This printer driver has been distributed via the LineMode_95-98-ME_yyyymmdd.ZIP*1 file. The contents of LineMode_95-98-ME_yyyymmdd.ZIP*1 are as follows:



^{*1} This package is periodically updated to include bug-fixes or new functionality. Each release of this package will follow the naming scheme LineMode_95-98-ME_yyyymmdd.ZIP. The first part of this, LineMode, tells you that this is a driver based on Star's LineMode command set. The middle section, 95-98-ME, tells you that this release is intended for use on Windows 95/98/Me. The final section, yyyymmdd, is the 8 digit date on which the package was release.

^{*2} See page 3 for details.

Specification

The following is a detailed specification of this software. This information is most useful for someone who is creating an application that will use these printer drivers to interface with the printer.

Model Description

This table describes all of the printer models supported by this driver set.

Model	Resolution	Printable Width File Set			Font Set	
1,10001	110001411011	Timuoto Widii	Japanese	English	1 5110 5 50	
TSP613	203 * 203 dpi	576dots	F1,F2	F1,F8	FNT1,FNT2,FNT3,FNT4,FNT5,FNT6,	
TSP643			F1,F3	F1,F9	FNT7,FNT8,FNT9,FNT10,FNT11	
TSP743			F1,F4	F1,F10		
TSP847		832 dots	F1,F5	F1,F11		
TUP942			F1,F6	F1,F12		
TUP992			F1,F7	F1,F13		

Driver Component Description

This table lists all driver components contained within this software set.

Reference Number	File Name	Version	Purpose	Model Usage Notes
F1	advdrvLM.inf	n/a	Add Printer Wizard script	
	stru1mon.dll	1.23.0	USB Port Monitor	
	SMJLMon.dll	0.3.0.0	Language Monitor	
	SWPRT.dll	1.0.0.1	Star Print Option function definition dll	
F2	TSP613LJ.drv	3.10.0.0	printer driver	only for TSP613
F3	TSP643LJ.drv	3.10.0.0	printer driver	only for TSP643
F4	TSP743LJ.drv	3.10.0.0	printer driver	only for TSP743
F5	TSP847LJ.drv	3.10.0.0	printer driver	only for TSP847
F6	TUP942LJ.drv	3.10.0.0	printer driver	only for TUP942
F7	TUP992LJ.drv	3.10.0.0	printer driver	only for TUP992
F8	TSP613LU.drv	3.10.0.0	printer driver	only for TSP613
F9	TSP643LU.drv	3.10.0.0	printer driver	only for TSP643
F10	TSP743LU.drv	3.10.0.0	printer driver	only for TSP743
F11	TSP847LU.drv	3.10.0.0	printer driver	only for TSP847
F12	TUP942LU.drv	3.10.0.0	printer driver	only for TUP942
F13	TUP992LU.drv	3.10.0.0	printer driver	only for TUP992

Specification

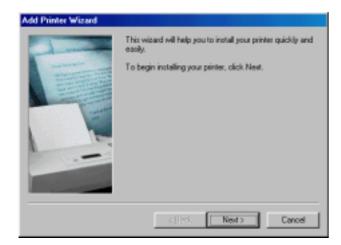
Device Font Description
This table describes all device fonts supported by these drivers.

Reference	Font Name	Width	Height	Description
Number		(MM_TEXT)	(MM_TEXT)	
FNT1	Printer 17cpi	12	24	Thermal Printer Font
	Printer 8.5cpi	24	24	
	Printer 17cpi Tall	12	48	
	Printer 8.5cpi Tall	24	48	
FNT2	Printer 16cpi	13	24	
	Printer 8cpi	26	24	
	Printer 16cpi Tall	13	48	
	Printer 8cpi Tall	26	48	
FNT3	Printer 14cpi	15	24	
	Printer 7cpi	30	24	
	Printer 14cpi Tall	15	48	
	Printer 7cpi Tall	30	48	
FNT4	Printer 17cpi (RED)	12	24	
	Printer 8.5cpi (RED)	24	24	
	Printer 17cpi Tall (RED)	12	48	
	Printer 8.5cpi Tall (RED)	24	48	
FNT5	Printer 16cpi (RED)	13	24	
	Printer 8cpi (RED)	26	24	
	Printer 16cpi Tall (RED)	13	48	
	Printer 8cpi Tall (RED)	26	48	
FNT6	Printer 14cpi (RED)	15	24	
	Printer 7cpi (RED)	30	24	
	Printer 14cpi Tall (RED)	15	48	
	Printer 7cpi Tall (RED)	30	48	
FNT7	Control	12	24	device control font
FNT8	ESC_FONT	12	24	
FNT9	UPC-E	12	24	barcode device font
	UPC-A	12	24	
	JAN/EAN-8	12	24	
	JAN/EAN-13	12	24	1
	CODE39	12	24	1
	ITF	12	24	1
	NW-7(Codabar)	12	24	1

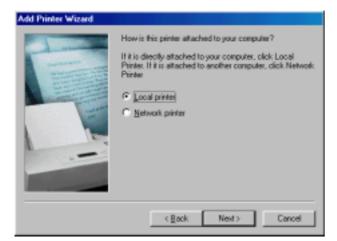
Installation Instructions

Installation of this driver uses the standard Windows Add Printer Wizard. In case of using USB-I/F card, the process of driver installation is different from this. Please look at the USB-Driver Installation Manual.

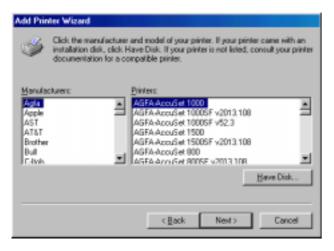
The following explains how to install via the Windows Add Printer wizard.



Please open the Printer Folder and Double-Click Add Pirnter then Add Printer Wizard is started.



Choose Local printer and Click the Next button.

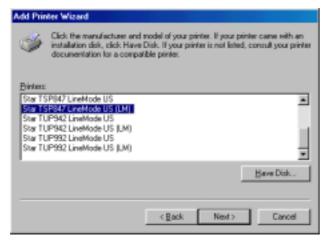


Click the Have Disk button.



Specify the folder of this printer driver.

Japanese Edition
...\Distribution\Japanese\W9x_Drv
English Edition
...\Distribution\English\W9x_Drv

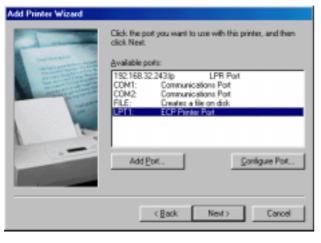


Choose the printer model to install.

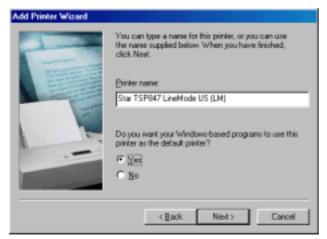


This driver needs Universal Driver Module made by Microsoft.

If this screen is displayed, Insert the Windows installation disk.

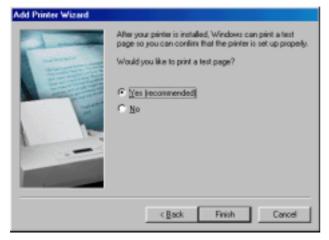


Choose the port that the printer is connected



Type the name of the printer queue for this newly installed printer into the Name field.

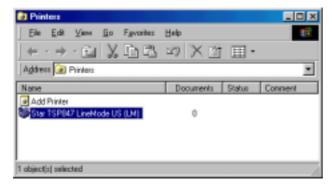
Respond Yes if the newly installed printer is to be the system's default printer. Respond No otherwise.



Respond Yes to message box if you want to print a test page. Respond No otherwise.



The left screen is displayed when a test page is performed.



The installation of your printer is now completed. The printer is ready for use.

Configuration Instructions

Following the installation of your printer, you can configure it via the printer properties. To open the printer properties do this:

1. Open the Windows Printer Folder

DK

Cancel

2. Right click on your printer and choose the Properties option

This driver set includes one standard and two vendor supplied property sheet pages, Device Settings, Print Options, and Logo respectively. Because each printer model has a different feature set, the form that the two vendor supplied property sheet pages take depends on the feature set of the installed printer.

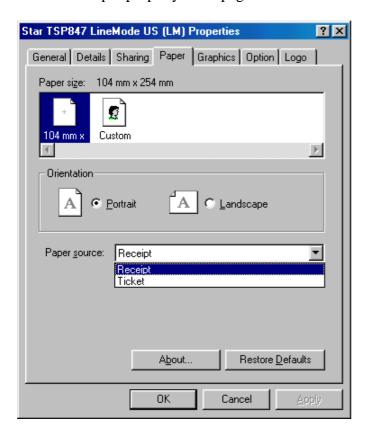
The Print Options property sheet page comes in the following variations: TSP613, TSP643, TSP743, TSP847 **TUP942** Star TUP942 LineMode US (LM) Properties Star TSP847 LineMode US (LM) Properties ? × General Details Sharing Paper Graphics Option Logo General Details Sharing Paper Graphics Option Logo Print Quality Print Quality Standard **Dut Action Dut Action** Page/Document: Form Feed / Partial Cut ٠ Page/Document: Form Feed / Full Cut Cash Drawer Black Mark Paper Support Two Color Paper Support Drawer1 Action / Timing: No Use • C Enabled C Enabled © Disabled @ Disabled 20 = x10y9 Drawer2 Action / Timing: No Use ٠ **Customize Control Codes** Black Mark Paper Support Two Color Paper Support C Enabled C Enabled @ Disabled @ Disabled Customize Control Codes Cancel Cancel **TUP992** Logo property sheet page(All models) Star TUP992 LineMode US (LM) Propertie Star TSP847 LineMode US (LM) Propi General Details Sharing Paper Graphics Option Logo General Details Sharing Paper Graphics Option Logo Standard Print Quality No: 1 # Size: Nomal Document Top ٠ Distriction Align: No Print × Page/Document: Full Cut / Full Cut No: 1 - Size: Nomal Page Top * Black Mark Paper Support Two Color Paper Support Align: No Print ٠ C Enabled C Enabled @ Disabled @ Disabled No: 1 - Size: Nomel ٠ Page Bottom Presenter Control - Paper Retract Align: No Print C Enabled Faper Retrest Timesut: 30 🚊 x 0 biser Document Bottom No: 1 # Size: Nomal ٠ @ Disabled Align: No Print **Customize Control Codes** Print All Logos

DK

Cancel

Paper – Property Sheet Page Usage

This property sheet is provided to all printer drivers from the Windows system, and is thus considered standard. The options present on this property sheet are vendor defined though, and as such are described here. The Paper property sheet page looks like this for all printers:



The Paper source option has been added to this property sheet page by this driver. Its function is described in the following table:

Option	Default	Choice	Meaning
Paper source	*	Receipt	Each printed page ends immediately after the last line. (Variable length pages)
1		Ticket	Each printed page has a consistent length defined by the application.

If you want the printed receipt to have the minimum required length then choose Receipt. This will cause each page to end after the last printed line. For example:

If the first document contains 10 lines then the receipt will be 40mm (10 lines * 4mm/line). If the second document contains 13 lines then the receipt will be 52mm (13 lines * 4mm/line).

The second document contains 13 lines then the receipt will be 32 linii (13 lines 4 linii/line).

In the majority of retailing and POS applications, this is the desired mode of operation. As such, the Receipt choice is this option's default.

If you want each printout to have a consistent length then choose Ticket. As the name implies, this mode of operation is most suitable for the printing of tickets, where each one must be of a uniform and unchanging length. The length of each printed page is determined by the document layout within the controlling application.

Print Options – Property Sheet Page Usage

The options present on the Print Options property sheet page allow you to control the printer during the printing process. The following table lists all options and their respective choices that are present on the

Option	ID No.	Choice	Meaning
Print Quality	PQ-0	Standard	Printing occurs at fasted rate
	PQ-1	High	Trade-off between quality & speed
	PQ-2	Best	Slowest printing for best quality
Cut Action	CA-0	Form Feed / Form Feed	No paper cut or feed occurs
	CA-1	Form Feed / Tear Bar	Last page is fed to the tear bar position
	CA-2	Form Feed / Partial Cut	Last page is fed to the cutter and partially cut
	CA-3	Form Feed / Full Cut	Last page is fed to the cutter and fully cut
	CA-4	Partial Cut No Feed / Partial Cut No Feed	All pages are partially cut without feeding
	CA-5	Partial Cut / Partial Cut	All pages are fed to the cutter and partially cut
	CA-6	Partial Cut No Feed / Full Cut No Feed	Pages 1 ~ n-1 are partially cut, page n is fully cut (without feeding)
	CA-7	Partial Cut / Full Cut	Pages 1 ~ n-1 are partially cut, page n is fully cut (with feeding)
	CA-8	Full Cut No Feed / Full Cut No Feed	All pages are fully cut without feeding
	CA-9	Full Cut / Full Cut	All pages are fed to the cutter and fully cut
Cash Drawer	CD1-0	No Use	Cash drawer 1 is not opened.
Drawer 1	CD1-1	Document Top	Cash drawer 1 is opened once before printing.
Action Timing	CD1-2	Document Bottom	Cash drawer 1 is opened once after printing.
	CD1-3	Page Top	Cash drawer 1 is opened before printing <i>each</i> page.
	CD1-4	Page Bottom	Cash drawer 1 is opened after printing <i>each</i> page.
Pulse Width	CD1T	1 ~ 127 (default = 20)	Drawer 1 is fired for n * 10mSec
Cash Drawer	CD2-0	No Use	Cash drawer 2 is not opened.
Drawer 2	CD2-1	Document Top	Cash drawer 2 is opened once before printing.
Action Timing	CD2-2	Document Bottom	Cash drawer 2 is opened once after printing.
	CD2-3	Page Top	Cash drawer 2 is opened before printing <i>each</i> page.
	CD2-4	Page Bottom	Cash drawer 2 is opened after printing <i>each</i> page.
Black Mark	BM-0	Enabled	The printer feeds paper according to the black mark
Paper Support		(requires printer memory switch change)	sensor.
	BM-1	Disabled	The printer does not use the black mark sensor.
Two Color	CP-0	Enabled	The printer prints for effectiveness on two-color paper.
Paper Support	CP-1	Disabled	The printer prints for effectiveness on standard paper.
Presenter	PC-0	Enabled	The paper will be automatically retracted after timeout.
Control Paper Retract	PC-1	Disabled	The paper will not be automatically retracted.
Paper Retract Timeout	PCT	1 ~ 255 (default = 30)	Paper retract timeout is set to n * 0.5 sec.

Print Options Default Summary

The table below describes the default configuration for each model. The configurations described here are effected following printer installation.

Model	Default Choices
TSP613	PQ-0,CA-1,CD1-0,CD2-0,BM-1,CP-1
TSP643	PQ-0,CA-2,CD1-0,CD2-0,BM-1,CP-1
TSP743	PQ-0,CA-2,CD1-0,CD2-0,BM-1,CP-1
TSP847	PQ-0,CA-2,CD1-0,CD2-0,BM-1,CP-1
TUP942	PQ-0,CA-2,BM-1,CP-1,PC-1
TUP992	PQ-0,CA-9,BM-1,CP-1,PC-1

Logo – Property Sheet Page Usage

The options present on the Logo property sheet page allow you to control the printing of logos stored within the printer. The following table lists all options and their respective choices that are present on the Print

Options property sheet.

Option	Default	Choice	Meaning	
Document Top No.	1	1 ~ 255	The specified logo will be printed once at the document top.	
Document Top Size	*	Normal	The specified logo will be printed at its original size.	
		Double Width	The specified logo will be printed at double width.	
		Tall	The specified logo will be printed at double height.	
		Double Width / Tall	The specified logo will be printed at double width and double height.	
Document Top Align	*	No Print	No logo will be printed at the document top.	
		Left	The logo will be printed and aligned with the left edge.	
		Center	The logo will be printed and center aligned.	
		Right	The logo will be printed and aligned with the right edge.	
Page Top No.	1	1 ~ 255	The specified logo will be printed top of <i>each</i> page.	
Page Top Size	*	Normal	The specified logo will be printed at its original size.	
		Double Width	The specified logo will be printed at double width.	
		Tall	The specified logo will be printed at double height.	
		Double Width / Tall	The specified logo will be printed at double width and double height.	
Page Top Align	*	No Print	No logo will be printed at the page top.	
		Left	The logo will be printed and aligned with the left edge.	
		Center	The logo will be printed and center aligned.	
		Right	The logo will be printed and aligned with the right edge.	
Page Bottom No.	1	1 ~ 255	The specified logo will be printed bottom of <i>each</i> page.	
Page Bottom Size	*	Normal	The specified logo will be printed at its original size.	
		Double Width	The specified logo will be printed at double width.	
		Tall	The specified logo will be printed at double height.	
		Double Width / Tall	The specified logo will be printed at double width and double height.	
Page Bottom Align	*	No Print	No logo will be printed at the page bottom.	
		Left	The logo will be printed and aligned with the left edge.	
		Center	The logo will be printed and center aligned.	
		Right	The logo will be printed and aligned with the right edge.	
Document Bottom No.	1	1 ~ 255	The specified logo will be printed once at the document bottom.	
Document Bottom Size	*	Normal	The specified logo will be printed at its original size.	
		Double Width	The specified logo will be printed at double width.	
		Tall	The specified logo will be printed at double height.	
		Double Width / Tall	The specified logo will be printed at double width and double height.	
Document Bottom Align	*	No Print	No logo will be printed at the document bottom.	
		Left	The logo will be printed and aligned with the left edge.	
		Center	The logo will be printed and center aligned.	
		Right	The logo will be printed and aligned with the right edge.	

Please Note:

• Logos must be stored within the printer before they can be printed.

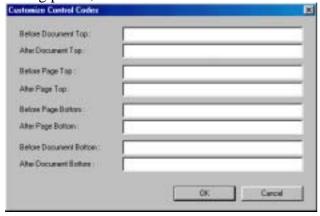
Customize Control Code – Dialog Usage

All models support this dialog box. It can be opened by clicking on the Customize Control Codes button contained on the Print Options property sheet.

Windows prints documents via the printer's printer driver, and does so by breaking the printing process up into 4 sections:

- Document Top
 - o Page Top
 - o Page Bottom
- Document Bottom

The options you configure determine the control codes the printer driver sends to the printer at each one of these timing points. Via the Customize Control Codes form, you can instruct the driver to send any control code sequence to the printer before and after each one of these timing points. This results is eight different timing points, as shown on the Customize Control Codes form:



To use this form, simply enter the text and control codes you want sent to the printer during each timing point.

The format for entering control codes is:

\xhh

Where hh is the two digit hex value to be sent to the printer.

You can also send plain text to the printer by simply typing it in. For example:

If you want your store address to be printed at the top of each document, before anything else, you would enter the following into the Before Document Top field:

Store Name\x0aaddress\x0acity, state $zip\x0aphone\x0a\x1b\x2d\x31www.store-url.com\x1b\x2d\x30\x0a$

The printed result will be:

Store Name address city, state, zip phone

www.store-url.com

Please note:

- Only Star Line Mode commands can be used.
- A maximum of 500 characters (following hex conversion) can be entered into each field.

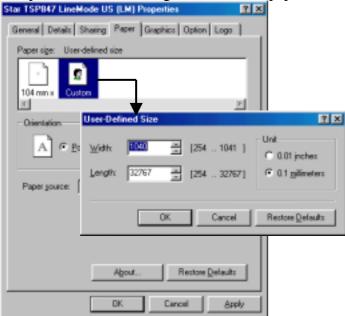
Paper Sizes

Each of the printer drivers contained within this driver set defines one standard paper size and also supports user defined paper sizes. The following table lists the standard paper sizes supported by each model's printer driver.

Model	Paper Size	Width	Length
TSP613	72mm x 254mm	72mm	254mm
TSP643			
TSP743			
TSP847	104mm x 254mm	104mm	254mm
TUP942			
TUP992			

User Defined Paper Sizes

The procedure for creating a user defined paper size is as follows:



The following table lists the maximum user defined paper size dimensions for each model's printer driver.

Model	Maximum Width	Maximum Height
TSP613	72mm	3276mm
TSP643	72mm	3276mm
TSP743	72mm	3276mm
TSP847	104mm	3276mm
TUP942	104mm	3276mm
TUP992	104mm	3276mm

Creating a user defined paper size of the maximum length and using the Receipt choice for the Paper Type option results in printing with no page breaks, and is often the optimal setting for retail POS.

Document Formatting Guidelines

So that you can most effectively use your printer with these printer drivers, please observe the following points when creating your documents and print forms:

• Margins:

These drivers do **not** require any margins. Set all document margins to 0.

• User defined paper sizes:

These drivers include one predefined paper size, but support user defined paper sizes. You can create a custom paper size via the Paper property sheet page. Refer to the Windows help system for information on how to do this.

• Device Font Usage:

Use device fonts to print text when ever possible. Printing text via device fonts will greatly increase the print speed.

• 1 Device Font / Line

Use only one type of device font per line.

• Red Device Font Usage

After using a red device font, it is necessary to print one or more characters using a black *device font* in order to return to the black printing mode. Space characters are acceptable.

• Graphics & Device Fonts

Do not print device fonts and graphics on the same horizontal line. Printing device fonts and graphics on the same horizontal line will cause the printed document to differ from the displayed document.

• Barcode Device Fonts

When using the barcode device fonts, only characters will appear on the computer's display. The printed result will be a barcode. This difference can cause the displayed and printed document lengths to vary slightly.

• Top Search – Label Printing

When printing on label stock you are encouraged to use the printer's black mark sensor. Using the printer's black mark sensor will ensure that printing begins at the same point on each label. So that you can print from the very top of the label Star printer's include a Top Search function. This function causes the printer to reverse feed the paper until its top position and then begin printing. In order to use this feature, ensure that your printer and printer driver are configured like this:

o Printer Configuration:

The top search function is enabled in the printer via the printer's memory switches. See the table on page 19 for details.

o Printer Driver Configuration:

Set the Enabled field contained in the Black Mark Paper Support area of the Print Options property sheet page. Choose Full Cut / Full Cut for the End Page / End Doc field of the Cut Action group on the Print Options property sheet page.

Barcode Font Usage

Usage of the supported barcode device fonts must be done as follows:

- 1. Choose the desired barcode device font from your editor's font menu
- 2. Enter the single letter width code.

Each barcode type can be printed at various widths. This table lists the single letter width codes for

each barcode type:

Circle I attack Wilds Co. I	IIDC E	CODE20	ITE
Single Letter Width Code	UPC-E	CODE39	ITF
	UPC-A	NW-7(Codabar)	
	JAN/EAN-8		
	JAN/EAN-13		
a	2 dot	2 dot (6)	2 dot (5)
b	3 dot	3 dot (9)	4 dot (10)
С	4 dot	4 dot (12)	6 dot (15)
d	NOT AVAILABLE	2 dot (5)	2 dot (4)
e		3 dot (8)	4 dot (8)
f		4 dot (10)	6 dot (12)
g		2 dot (4)	2 dot (6)
h		3 dot (6)	3 dot (9)
i		4 dot (8)	4 dot (12)

3. Enter the single letter height code.

All barcode types use the same single letter height codes, and these are:

Single Letter Height Code	Height
0	32 dot (4mm)
p	64 dot (8mm)
q	96 dot (12mm)
r	128 dot (16mm)
s	160 dot (20mm)
t	192 dot (24mm)
u	224 dot (28mm)
V	255 dot (31.9mm)

4. Enter the barcode data.

Each barcode type can accommodate a different character set, and a different number of characters.

This information is summarized in the following table:

Barcode Type	Number of Characters	Character Set
UPC-E	12	0~9
UPC-A	12	0~9
JAN/EAN-8	8	0~9
JAN/EAN-13	13	0~9
CODE39	1 or more	0~9
		<sp>\$/+%</sp>
		A ~ Z
		Start / Stop: *
ITF	1 or more	0~9
NW-7(Codabar)	1 or more	0~9
		-\$:/.+
		A ~ D

5. Enter the barcode font stop character 'z' to terminate the barcode.

Example:

ap012345678901z

Using the UPC-E device font: a 2 dot wide, :64 dot tall barcode with the twelve digits: 0123456789012 is:

---->single letter width code

=> a p 012345678901 z

Control Font Usage

All models include the Control device font. This font is used to provide for control *within* the span of a single document. For example, if your document wishes to print a logo in the middle, this can be done via the control font.

Usage of the Control font must be done as follows:

- 1. Choose the control font from your editor's font menu.
- 2. Enter the characters that map to the desired printer actions. This character to function map is as follows:

Character	Function	Control Code Translation
		\x1b\x07\x05\x05\x07
A B	Open cash drawer 1 for 50mSec Open cash drawer 1 for 100mSec	\x1b\x07\x03\x05\x07 \x1b\x07\x0a\x0a
С	Open cash drawer 1 for 150mSec	\x1b\x07\x0a\x0a\x07 \x1b\x07\x0f\x0f\x07
		\x1b\x07\x01\x01\x07 \x1b\x07\x14\x14\x07
D E	Open cash drawer 1 for 200mSec	\x1b\x07\x14\x14\x07 \x1b\x07\x19\x19\x07
	Open cash drawer 1 for 250mSec	
d	Open cash drawer 2 for 200mSec	\x1a
6	LF	\x0a
7	CR	\x0d
F	Full Cut	\x1bd0
P	Partial Cut	\x1bd1
G	Print NV Logo No. 1	\x0a\x1b\x1cp\x01\x00
H	Print NV Logo No. 2	\x0a\x1b\x1cp\x02\x00
I	Print NV Logo No. 3	\x0a\x1b\x1cp\x03\x00
J	Print NV Logo No. 4	$x0a\\x1b\\x1cp\\x04\\x00$
K	Print NV Logo No. 5	\x0a\x1b\x1cp\x05\x00
Q	Print NV Logo No. 1 – Double Wide	$\x0a\x1b\x1cp\x01\x01$
R	Print NV Logo No. 2 – Double Wide	\x0a\x1b\x1cp\x02\x01
S	Print NV Logo No. 3 – Double Wide	\x0a\x1b\x1cp\x03\x01
T	Print NV Logo No. 4 – Double Wide	$\x0a\x1b\x1cp\x04\x01$
U	Print NV Logo No. 5 – Double Wide	$\x0a\x1b\x1cp\x05\x01$
V	Print NV Logo No. 1 – Tall	$\x0a\x1b\x1cp\x01\x02$
W	Print NV Logo No. 2 – Tall	$\x0a\x1b\x1cp\x02\x02$
X	Print NV Logo No. 3 – Tall	$\x0a\x1b\x1cp\x03\x02$
Y	Print NV Logo No. 4 – Tall	$\x0a\x1b\x1cp\x04\x02$
Z	Print NV Logo No. 5 – Tall	\x0a\x1b\x1cp\x05\x02
[Print NV Logo No. 1 – Double Wide / High	$\x0a\x1b\x1cp\x01\x03$
]	Print NV Logo No. 2 – Double Wide / High	\x0a\x1b\x1cp\x02\x03
٨	Print NV Logo No. 3 – Double Wide / High	\x0a\x1b\x1cp\x03\x03
_	Print NV Logo No. 4 – Double Wide / High	\x0a\x1b\x1cp\x04\x03
6	Print NV Logo No. 5 – Double Wide / High	\x0a\x1b\x1cp\x05\x03
a	Set Left Alignment	\x1b\x1da\x00
b	Set Center Alignment	\x1b\x1da\x01
С	Set Right Alignment	\x1b\x1da\x02
e	Set 3mm line feed spacing	\x1b0
f	Set 4mm line feed spacing	\x1bz1
g	Select USA international character set	\x1bR\x00
h	Select France international character set	\x1bR\x01
i	Select Germany international character set	\x1bR\x02
i	Select England international character set	\x1bR\x03
k	Select Denmark I international character set	\x1bR\x04
1	Select Sweden international character set	\x1bR\x05
m	Select Italy international character set	\x1bR\x06
n	Select Spain I international character set	\x1bR\x07
0	Select Japan international character set	\x1bR\x08
p	Select Denmark II international character set	\x1bR\x09
q	Select Spain II international character set	\x1bR\x0a
r	Select Latin America international character set	\x1bR\x0b
1	Select Latin / interior international character set	//

Control Font Usage

2. Continued

Character	Function	Control Code Translation
S	Select Korea international character set	\x1bR\x0c
t	Select highlighted print	\x1b4
u	Deselect highlighted print	\x1b5
V	Select the customer display	\x1bS
W	Deselect the customer display	\x1bG
X	Clear the customer display	\x04\x01C1\x17

Printer Configuration

Star printers can be configured via two different mechanisms.

- 1. DIP switches (mechanical switched)
- 2. Memory switches

When using these drivers with your Star printer no changes to the factory default DIP switch settings are required.

In addition, the factory default memory switch settings do not need to be changed <u>unless you choose to use</u> black mark paper.

When using black mark paper with your printer you must enable the printer's black mark sensor. This is done via memory switches. The table below lists the memory switch position used to enable the black mark sensor for all black mark capable printers.

Model	Bank	Bit	1 - On	0 – Off
TSP613	1	8	black mark sensor enabled	black mark sensor disabled
TSP643	1	8	black mark sensor enabled	black mark sensor disabled
TSP743	1	8	black mark sensor enabled	black mark sensor disabled
	1	9	top search function enabled	top-search function disabled
TSP847	1	8	black mark sensor enabled	black mark sensor disabled
	1	9	top search function enabled	top search function disabled
TUP942	1	8	black mark sensor enabled	black mark sensor disabled
	1	9	top search function enabled	top search function disabled
TUP992	1	8	black mark sensor enabled	black mark sensor disabled
			top search function enabled	top search function disabled

Note:

The TSP613 and TSP643 models must have the additional black mark sensor installed in order to be used with black mark paper. Please contact your Star representative for more information about adding this sensor to the TSP613 and TSP643 models.

Star Language and Status Monitor Overview

The Star Language and Status Monitor components have been included in the distribution of these drivers to provide a complete printing solution, including the ability to track the printer's status. Through the use of the Star Language and Status Monitor components, you can:

- Track the printer's status in real-time via the Windows Printers Folder.
- Create custom applications that link with the Star Status Monitor component to allow for the real-time display of the printer's status within your application's user interface.
- Configure the Star Language and Status Monitor components to surpress the warning messages that Windows usually posts to the user following a failed print attempt (this is valuable, for example, in a kiosk environment, where the user would be unable to effectively respond to such an error).

To install this StatusMonitor, execute the "SETUP.exe" located in the folder ".\Distribution\StatusMonitor". The installation wizard is started.

Please advance the operation according to the screen.

This StatusMonitor installer creates the Star Micronics \ SMJ StatusMonitor folder in the Windows Start Menu \ Programs path. Find this by clicking the Start Button, entering the Programs menu, then the StarMicronics menu, and finally SMJ StatusMonitor.

Within this group are the following entries:

- SMJ StatusMonitor
 This application allows you to configure the SMJ Language Monitor component.
- VCSample
 This is a compiled VC project that demonstrates the usage of the SMJ Language and Status Monitor components.

This StatusMonitor installer copies VB &VC sample source code. Please refer to the following folders.

C:\Program Files\StarMicronics

|--SMJ StatusMonitor for Win98

When using the Star Language and Status Monitor software with <u>serial</u> or <u>parallel</u> printers, the following printer configuration must be effected.

Model	ASB Enable	NSB Enable
TSP613	Dip Switch 1-7 OFF	Dip Switch 1-8 OFF
TSP643	Dip Switch 1-7 OFF	Dip Switch 1-8 OFF
TSP700	Dip Switch 1-7 OFF	Dip Switch 1-8 OFF
TSP800	Dip Switch 1-7 OFF	Dip Switch 1-8 OFF
TUP942	Memory Switch 7-C ON	Memory Switch 7-8 ON -
TUP992	Memory Switch 7-C ON	Memory Switch 7-8 ON -

For full details on the function and usage of the Star Language and Status Monitor components, see that package's user manual.

Release History

The following is a release history for this driver set.

Note	Date	Distribution File
Initial Release	2002/07/08	LineMode_95-98-ME_20020708.ZIP
includes Star Language and Status Monitor components	2002/07/24	LineMode_95-98-ME_20020724.ZIP

Document End